

US-09-856-070-21 (1-12) x PCT-US91-00899 6 (1-215)

QY 1 GluGlutMetLeuArgGlnAspTyrGluGlu 12
Dy 406 CGAGCTGATGATGATGATGATGATGAGAG 441

RESULT 3
US-07-914-281-9
Sequence 4, Application US/07914281
Patent No. 5324463
GENERAL INFORMATION:
APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS OF GLYCOSACCHARIDE STRUCTURES ON GLYCOPROTEINS, GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS OF GLYCOSACCHARIDE STRUCTURES ON GLYCOPROTEINS, GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLIN, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENT RELEASE #1.0, VERSION #1.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/914,281
FILING DATE: 1992-07-20
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Laval Cyc, Jean-Paul M., P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 521-4500
TELEFAX: (703) 486-2347
TELEX: 248855 OPAJ UR
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
SEQUENCE: 1488 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: unknown
TOPOLOGY: unknown
TOPOLogy: unknown
MOLECULE TYPE: DNA (genomic)
US-07-914-281-9

Alignment Scores:
Prod. No.: 21.5 Length: 1068
Score: 39.00 Matches: 8
Percent Similarity: 84.33% Conservative: 2
Best Local Similarity: 66.67% Mismatches: 2
Query Match: 5.00% Indels: 0
Report US91-00899-13 Gaps: 0

RESULT 2
US-07-914-00899-5
Sequence 5, Application US/0791400899
GENERAL INFORMATION:
APPLICANT: LOWE, John B.
TITLE OF INVENTION: Method and Products For the Synthesis of Oligosaccharide Structures on Glycoproteins, Glycolipids, or as Free Molecules, and For the Isolation of Cloned Genetic Sequences that Determine These Structures
TITLE OF INVENTION: Glycoproteins, Glycolipids, or as Free Molecules, and For the Isolation of Cloned Genetic Sequences that Determine These Structures
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLIN, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
STREET: 1755 Jefferson Davis Highway, Suite 400
CITY: Arlington
STATE: Virginia
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENT RELEASE #1.0, VERSION #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT-US91/00899
FILING DATE: 1991-02-14
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Laval Cyc, Jean-Paul M., P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 521-4500
TELEFAX: 248855 OPAJ UR
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
SEQUENCE: 1215 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: unknown
TOPOLOGY: unknown
TOPOLogy: unknown
MOLECULE TYPE: DNA (genomic)
Report US91-00899-5

Alignment Scores:
Prod. No.: 25.1 Length: 1215
Score: 39.00 Matches: 8
Percent Similarity: 84.33% Conservative: 2
Best Local Similarity: 66.67% Mismatches: 2
Query Match: 5.00% Indels: 0
Report US91-00899-5 Gaps: 0

RESULT 4
US-08-393-246-9
Sequence 9, Application US/08393246
Patent No. 5591900
GENERAL INFORMATION:
APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS OF GLYCOSACCHARIDE STRUCTURES ON GLYCOPROTEINS, GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS OF GLYCOSACCHARIDE STRUCTURES ON GLYCOPROTEINS, GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLIN, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENT RELEASE #1.0, VERSION #1.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/932469
FILING DATE: 1993-08-11
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Laval Cyc, Jean-Paul M., P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 521-4500
TELEFAX: 248855 OPAJ UR
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
SEQUENCE: 1215 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: unknown
TOPOLOGY: unknown
TOPOLogy: unknown
MOLECULE TYPE: DNA (genomic)
Report US91-00899-5

TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
 TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE TLRSF STRUCTURE
 NUMBER OF SEQUENCES: 14
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,
 ADDRESS: P.C.
 STREET: 1755 Jefferson Davis Highway, Fourth Floor
 CITY: Arlington
 STATE: Virginia
 COUNTRY: U.S.A.
 ZIP: 22202
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/525,058A
 FILING DATE:
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Lavallee, Jean-Paul M. P.
 REGISTRATION NUMBER: 31,451
 REFERENCE/DOCKET NUMBER: 2363-060-55
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703)521-4300
 TELEFAX: (703)486-2347
 TELEX: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1488 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 Molecule Type: DNA (genomic)
 US-08-525-058A-9

PRICE: APPLICATION DATA:
 APPLICATION NUMBER: US 08/220,433
 FILING DATE: 30-MAR-1994
 APPLICATION NUMBER: US 07/914,281
 FILING DATE: 20-JUL-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Lavallee, Jean-Paul M. P.
 REGISTRATION NUMBER: 31,451
 REFERENCE/DOCKET NUMBER: 2363-060-55
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703)521-4500
 TELEX: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1488 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 Molecule Type: DNA (genomic)
 US-08-353-246-9

Alignment Scores:
 PRED. NO.: 31.9
 Score: 39.00
 Percent Similarity: 83.33%
 Best Local Similarity: 66.67%
 Query Match: 65.00%
 DB: 1

US-08-353-246-9 (1-12) x US 08 393 246 9 (1-1488)
 QY 1 GluGlutMetLeuArgLeuAspTyrGluGlu 12
 DB 679 GAGGAGGGAGATGCGCTGTCGACTACGAGG 714

RESULT 5
 US-08-525-058A-9

Sequence 9, Application US/08/525,058A
 Patent No. 5,770,420
 GENERAL INFORMATION:
 APPLICANT: LOWE, JOHN B.
 TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
 OF GLYCOSAMINOLYASE STRUCTURES ON GLYCOPROTEINS,
 TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
 NUMBER OF SEQUENCES: 23
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.
 STREET: 1755 Jefferson Davis Highway, Fourth Floor
 CITY: Arlington
 STATE: Virginia
 COUNTRY: U.S.A.
 ZIP: 22202
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/596,731
 FILING DATE: 14-AUG-1996
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/393,246
 FILING DATE:
 APPLICATION NUMBER: US 08/220,433

FILING DATE: 30 MAR 1994
 APPLICATION NUMBER: US 07/914,281
 FILING DATE: 20 JUL 1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Lavallée, Jean-Paul M. P.
 REGISTRATION NUMBER: 31,451
 REFERENCE/DOCKET NUMBER: 2363-060-55
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703)521-4500
 TELEFAX: (703)486-2447
 TELEX: 248855 OPAT OR
 INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1488 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 MOLECULE TYPE: DNA (genomic)
 US 09-042-531-9

Alignment Scores:
 Pred. No.: 31.9 Length: 1488
 Score: 39.00 Matches: 8
 Percent Similarity: 84.38 Conservat.: 2
 Best Local Similarity: 66.678 Mismatches: 2
 Query Match: 65.008 Indels: 0
 DB: 0 Gaps: 0

US 09-856-070-21 (1-12) x US-08-696-741-9 (1-1488)
 QY 1 Glucuronidemuramylpentapeptide in Asp/Glu/Glu 12
 Pb 679 GAGAGGTGATCTGGGTTGGACTACGGAG 714

RESULT 7
 US 09-042-531-9
 QY 2 Sequence 9, Application US/09942541
 Pb 626813
 GENERAL INFORMATION:
 APPLICANT: LOWE, JOHN B.
 TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
 TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
 TITLE OF INVENTION: GLYCOPOLYMERS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
 TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
 NUMBER OF SEQUENCES: 14
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
 ADDRESS: P.C.
 STREET: 1755 Jefferson Davis Highway, Fourth Floor
 CITY: Arlington
 STATE: Virginia
 COUNTRY: U.S.A.
 ZIP: 22202
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/042,531
 FILING DATE:
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US/08/394,246
 FILING DATE:
 APPLICATION NUMBER: US/08/229,433
 FILING DATE: 30 MAR 1994
 APPLICATION NUMBER: US 07/914,281
 FILING DATE: 20 JUL 1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Lavallée, Jean-Paul M. P.
 REGISTRATION NUMBER: 31,451
 REFERENCE/DOCKET NUMBER: 2363-060-55

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703)521-4500
 TELEFAX: (703)486-2347
 TELEX: 248855 OPAT OR
 INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1488 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 MOLECULE TYPE: DNA (genomic)
 US-09-042-531-9

Alignment Scores:
 Pred. No.: 31.9 Length: 1488
 Score: 39.00 Matches: 8
 Percent Similarity: 83.33% Conservat.: 2
 Best Local Similarity: 66.678 Mismatches: 2
 Query Match: 65.008 Indels: 0
 DB: 0 Gaps: 0

US-09-856-070-21 (1-12) x US-09-042-541-9 (1-1488)
 QY 1 Glucuronidemuramylpentapeptide in Asp/Glu/Glu 12
 Pb 679 GAGAGGTGATCTGGGTTGGACTACGGAG 714

RESULT 8
 US-08-483-151-3
 Sequence 3, Application US/08483151
 Patent No. 5858152
 GENERAL INFORMATION:
 NUMBER OF SEQUENCES: 4
 APPLICANT: Seid, Brian
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Fish & Richardson P.C.
 STREET: 225 Franklin Street
 CITY: Boston
 STATE: MA
 COUNTRY: USA
 ZIP: 02110-2804
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/483,151
 FILING DATE: 07-JUN-1995
 CLASSIFICATION: 530
 ATTORNEY/AGENT INFORMATION:
 NAME: Lech, Karen F.
 REGISTRATION NUMBER: 35,238
 REFERENCE/DOCKET NUMBER: 00786/278001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 617/542-5070
 TELEX: 200154
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2134 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-08-483-151-3

Alignment Scores:
 Pred. No.: 48.8 Length: 2134
 Score: 39.00 Matches: 8
 Percent Similarity: 83.33%

FILING DATE: US 08/220,433
 APPLICATION NUMBER: US 07/614,281
 FILING DATE: 30 MAR 1994
 APPLICATION NUMBER: US 07/614,281
 FILING DATE: 20 JUL 1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Lavalloie, Jean-Paul M. P.
 REGISTRATION NUMBER: 31,451
 REFERENCE/DOCKET NUMBER: 2363-060-55
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703)521-4500
 TELEFAX: (703)486-2347
 TELEFAX: 248655, QHAT, UK
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 3647 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: unknown
 PROLOGY: unknown
 MOLECULE TYPE: DNA (circular)
 ANTI SENSE: No
 US 08 696 741-7

Alignment Scores:
 Pred. No.: 92.2 Length: 3647
 Score: 39.00 Matches: 8
 Percent Similarity: 83.44% Conservative: 2
 Best Local Similarity: 66.67% Mismatches: 2
 Query Match: 65.00% Indels: 0
 Db: 2 Gaps: 0
 US 09 856 070-21 (1-12) x US 08-696-741-7 (1-3647)
 Qy 1 GlutuLeuMetLeuArgIleAspIglnGlu 12
 Db 2 347 GAGGAGTGATCTGCTGTTGGACATGAGAG 2382

Search completed: January 16, 2003, 21:41:28
 Job time: 43.1429 secs